

Title (en)
Conical refiner.

Title (de)
Kegelstoffmühle.

Title (fr)
Raffineur conique.

Publication
EP 0421968 A2 19910410 (EN)

Application
EP 90850323 A 19901001

Priority
FI 894732 A 19891005

Abstract (en)
A conical refiner for the refining of paper pulps or the like, comprising a stationary stator blade (2) and a rotating rotor blade (1), with a refining zone (6) formed between the blades so that one end of the refining zone opens to the pulp infeed side and the other end to the delivery side of the refiner. A drawback with currently used refiner constructions is that the pulp fed into the refiner is not refined uniformly, so that the pulp flowing out of the refiner contains both refined fibres and fines and unrefined fibres. In prior art, these have been screened only after the refining. In the present invention, the refiner is provided with a screening unit (4, 7) working on the principle of a pressure screen, the screen plate (4) of the screening unit being of an essentially cylindrical form and coaxial with the refiner blades (1, 2), said screening unit being fixedly connected to the stator blade and located at a desired point in the direction of the pulp flow. The rotor blade (1) has a cylindrical shape in the region of the pressure screen (4, 7) and is provided with a component (3) producing the driving power for the pressure screen.

IPC 1-7
D21D 1/22

IPC 8 full level
D21D 1/22 (2006.01)

CPC (source: EP)
D21D 1/22 (2013.01)

Cited by
AT408769B

Designated contracting state (EPC)
AT DE FR GB IT SE

DOCDB simple family (publication)
EP 0421968 A2 19910410; EP 0421968 A3 19920401; FI 85391 B 19911231; FI 85391 C 19920410; FI 894732 A0 19891005;
FI 894732 A 19910406

DOCDB simple family (application)
EP 90850323 A 19901001; FI 894732 A 19891005